SWITCH LEVEL RELIABLE TRANSMISSION

ABSTRACT OF THE DISCLOSURE

A microchip configured to reliably transmit data is provided. The microchip includes a memory region and a selection module configured to select a portion of the data from the memory region. An error checking module configured to calculate a value derived from the selected portion of the data is provided. A pointer region including a plurality of object pointers is included. One of the object pointers is associated with an address of the portion of the data. The object pointer associated with the address is configured to receive a signal indicating an error associated with the transmission of the data. A scheduler module in communication with each of the plurality of object pointers is provided. The scheduler module is configured to schedule re-transmission of the selected portion of the data. A system and a method for reliably transmitting data between microchips are also provided.

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